Amendments to the specification are indicated in the attached "Marked Up Version of Amendments" (pages i - xiii).

## In the Claims

Please amend Claims 9, 34, 45 and 48. Amendments to the claims are indicated in the attached "Marked Up Version of Amendments" (pages i - xiii).

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(Amended) A D-peptide selected from the group consisting of:

- (a) \CDLKAKEWFWLC (SEQ ID NO: 3);
- (b) CEARHREWAWLC (SEQ ID NO: 4);
- (c) CELLGWEWAWLC (SEQ ID NO: 5);
- (d) CLLRAPEWGWLC (SEQ ID NO: 6);
- (e) CSRSQPEWEWLC (SEQ ID NO: 7);
- (f) CGLGQEEWFWLC (SEQ ID NO: 8);
- (g) CMRGEWEWSWLC (SEQ ID NO: 9);
- (h) CPPLNKEWAWL& (SEQ ID NO: 10);
- (i) CVLKAKEWFWLC (SEQ ID NO: 11);
- (j) KKGACGLGQEEWFWLC (SEQ ID NO: 15);
- (k) KKGACELLGWEWAWLC (SEQ ID NO: 16);
- (I) KKKKGACELLGWEWAWL& (SEQ ID NO: 17);
- (m) KKGACMRGEWEWSWLC (SEQ ID NO: 18);
- (n) KKGACPPLNKEWAWLC (SEQ 10 NO: 19);
- (o) a D-peptide comprising WXWL (SEQID NO: 23);
- (p) a D-peptide comprising EWXWL (SEQ\D NO: 24);
- (q) a D-peptide comprising CXXXXXEWXWL (SEQ ID NO: 12);

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- ad-GACEARHREWAWLCAA-am (SEQ ID NO: 34); (r) ac-KKGACEARHREWAWLCAA-am (SEQ ID NO: 38); (r) ac-KKKKGACEARHREWAWLCAA-am (SEQ ID NO: 43); (t) ac-GACGLGQEEWFWLCAA-am (SEQ ID NO: 44); (u) ac-KKQACGLGQEEWFWLCAA-am (SEQ ID NO: 64); (v) ac-KKKKGACGLGQEEWFWLCAA-am (SEQ ID NO: 45) (w) (x) ac-GACDIKAKEWFWLCAA-am (SEQ ID NO: 35); ac-KKGACDLKAKEWFWLCAA-am (SEQ ID NO: 39); (y) ac-KKKKGACDLKAKEWFWLCAA-am (SEQ ID NO: 46); (z) ac-GACELLGWEWAWLCC-am (SEQ ID NO: 47); (a') ac-KKGACELLGWEWAWLCAA-am (SEQ ID NO: 65); (b') ac-KKKKGACELLGWEWAWLCAA-am (SEQ ID NO: 66); (c') ac-GACSRSQPEWEWLCAA-am (SEQ ID NO: 36); (d') (e') ac-KKGACSRSQPEWEWLCAA-am (SEQ ID NO: 40); ac-KKKKGACSRSQPEWEWLCAA-am (SEQ ID NO: 48); (f') ac-GACLLRAPEWGWLCAA-am (SEQ ID NO: 37); (g')
- (j') ac-GACMRGEWEWSWLCAA-am (SEQ ID NO: 50);(k') ac-KKGACMRGEWEWSWLCAA-am (SEQ ID NO: 67);
- (l') ac-KKKKGACMRGEWEWSWLCAA-am (SEQ ID NO: 51);

ac-KKGACLLRAPEWGWLCAA-am (SEQ ID NO: 41);

ac-KKKKGACLLRAPEWGWLCAA-am (SEQ ID NO: 49);

- (m') ac-GACPPLNKEWAWLCAA-am (\$EQ ID NO: 52);
- (n') ac-KKGACPPLNKEWAWLCAA-am\(SEQ ID NO: 68);
- (o') ac-KKKKGACPPLNKEWAWLCAA-am (SEQ ID NO: 53);
- (p') ac-GACXXXXXEWXWLCAA-am (SEQ ID NO: 54);
- (q') ac-KKGACXXXXXEWXWLCAA-am (SEQ ID NO: 55);
- (r') ac-KKKKGACXXXXXEWXWLCAA-am (SEQ ID NO: 56);

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(s') ac-XXCXXXXXEWXWLCXX-am (SEQ ID NO: 57);

- (t') ac-KKXXCXXXXXEWXWLCXX-am (SEQ ID NO: 58);
- (u') ac-KKKXXCXXXXXEWXWLCXX-am (SEQ ID NO: 59);
- (v') ac-XXCXXXXXEWXWLCXXX-am (SEQ ID NO: 60);
- (w') ac-KKXXCXXXXXEWXWLCXXX-am (SEQ ID NO: 61);
- (x') ac-KKKKXXCXXXXXEWXWLCXXX-am (SEQ ID NO: 62); and
- (y') a variant of a sequence of (a) through (x'), wherein the variant binds the N-helix coiled-coil cavity of NIV gp41, wherein ac- at the C-terminus and -am at the N-terminus are optional.
- 34. (Amended) The method of Claim 28 wherein the D-peptide of (e) comprises an amino acid sequence selected from the group consisting of:
  - (a) CDLKAKEWFWLC (SEQ ID NO: 3);
  - (b) CEARHREWAWLC (SEQ ID NO: 4);
  - (c) CELLGWEWAWLC (SEQ ID NO: 5);
  - (d) CLLRAPEWGWLC (SEQ ID NO: 6);
  - (e) CSRSQPEWEWLC (SEQ ID NO: 7);
  - (f) CGLGQEEWFWLC (SEQ ID NO: 8);
  - (g) CMRGEWEWSWLC (SEQ ID NO: 9);
  - (h) CPPLNKEWAWLC (SEQ ID NO: 10);
  - (i) CVLKAKEWFWLC (SEQ ID NO: 11);
  - (j) KKGACGLGQEEWFWLC (SEQ ID NO: 15);
  - (k) KKGACELLGWEWAWLC (SEQ ID NO: 16);
  - (I) KKKKGACELLGWEWAWLC (SEQ ID NO: 17);
  - (m) KKGACMRGEWEWSWLC (SEQ ID NO: 18);
  - (n) KKGACPPLNKEWAWLC (SEQ ID NO: 19);
  - (o) a D-peptide comprising WXWL (SEQ ID NO: 23);

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- (p) a D-peptide comprising EWXWL (SEQ ID NO: 24);
- (q) a D-peptide comprising CXXXXXEWXWL (SEQ ID NO: 12);
- (r) ac-GACEARHREWAWLCAA-am (SEQ ID NO: 34);
- (r) ac-KKGACEARHREWAWLCAA-am (SEQ ID NO: 38);
- (t) ac-KKKKGACEARHREWAWLCAA-am (SEQ ID NO: 43);
- (u) ac-GACGLGQEEWFWLCAA-am (SEQ ID NO: 44);
- (v) ac-KKGACGLGQEEWFWLCAA-am (SEQ ID NO: 64);
- (w) ac-KKKKGACGLGQEEWFWLCAA-am (SEQ ID NO: 45);
- (x) ac-GACDLKAKEWFWLCAA-am (SEQ ID NO: 35);
- (y) ac-KKGACDLKAKEWFWLCAA-am (SEQ ID NO: 39);
- (z) ac-KKKKGACDLKAKEWFWLCAA-am (SEQ ID NO: 46);
- (a') ac-GACELLGWEWAWLCC-am (SEQ ID NO: 47);
- (b') ac-KKGACELLGWEWAWLCAA-am (SEQ ID NO: 65);
- (c') ac-KKKKGACELLGWEWAWLCAA-am (SEQ ID NO: 66);
- (d') ac-GACSRSQPEWEWLCAA-am (SEQ ID NO: 36);
- (e') ac-KKGACSRSQPEWEWLCAA-am (SEQ ID NO: 40);
- (f') ac-KKKKGACSRSQPEWEWLCAA-am (SEQ ID NO: 48);
- (g') ac-GACLLRAPEWGWLCAA-am (SEQ ID NO: 37);
- (h') ac-KKGACLLRAPEWGWLCAA-am (SEQ ID NO: 41);
- (i') ac-KKKKGACLLRAPEWGWLCAA-am (SEQ ID NO: 49);
- (j') ac-GACMRGEWEWSWLCAA-am (SEQ ID NO: 50);
- (k') ac-KKGACMRGEWEWSWLCAA-am (SEQ ID NO: 67);
- (1') ac-KKKKGACMRGEWEWSWLCAA-am (SEQ ID NO: 51);
- (m') ac-GACPPLNKEWAWLCAA-am (SEQ ID NO: 52);
- (n') ac-KKGACPPLNKEWAWLCAA-am (SEQ ID NO: 68);
- (o') ac-KKKKGACPPLNKEWAWLCAA-am (SEQ ID NO: 53);
- (p') ac-GACXXXXXEWXWLCAA-am (SEQ ID NO: 54);

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- (q') ac-KKGACXXXXXEWXWLCAA-am (SEQ ID NO: 55);
- (r') ac-KKKKGACXXXXXEWXWLCAA-am (SEQ ID NO: 56);
- (s') ac-XXCXXXXXEWXWLCXX-am (SEQ ID NO: 57);
- (t') ac-KKXXCXXXXXEWXWLCXX-am (SEQ ID NO: 58);

(u') ac-KKKKXXCXXXXXEWXWLCXX-am (SEQ ID NO: 59);

- (v') ac-XXCXXXXXEWXWLCXXX-am (SEQ ID NO: 60);
- (w') ac-KKXXCXXXXXEWXWLCXXX-am (SEQ ID NO: 61);
- (x') ac-KKKKXXCXXXXXEWXWLCXXX-am (SEQ ID NO: 62); and
- (y') a variant of a sequence of (a) through (x'), wherein the variant binds the N-helix coiled-coil cavity of HIV gp41, wherein ac- at the C-terminus and -am at the N-terminus are optional.
- 45. (Amended) A D-peptide which comprises an amino acid sequence selected from the group consisting of:
  - (a) CDLKAKEWFWLC (SEQ ID NO: 3);
  - (b) CEARHREWAWLC (SEQ ID NO: 4);
  - (c) CELLGWEWAWLC (SEQ ID NO: 5);
  - (d) CLLRAPEWGWLC (SEQ ID NO: 6);
  - (e) CSRSQPEWEWLC (SEQ ID NO: 7);
  - (f) CGLGQEEWFWLC (SEQ ID NO: 8);
  - (g) CMRGEWEWSWLC (SEQ ID NO: 9);
  - (h) CPPLNKEWAWLC (SEQ ID NO: 10);
  - (i) CVLKAKEWFWLC (SEQ ID NO: 11);
  - (j) KKGACGLGQEEWFWLC (SEQ ID NO: 15);
  - (k) KKGACELLGWEWAWLC (SEQ ID NO: 16);
  - (I) KKKKGACELLGWEWAWLC (SEQ ID NO: 17);
  - (m) KKGACMRGEWEWSWLC (SEQ ID NO: 18);

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- (n) KKGACPPLNKEWAWLC (SEQ ID NO: 19);
- (o) a D-peptide comprising WXWL (SEQ ID NO: 23);
- (p) a D-peptide comprising EWXWL (SEQ ID NO: 24);
- (q) a D-peptide comprising CXXXXXEWXWL (SEQ ID NO: 12);
- (r) ac-GACEARHREWAWLCAA-am (SEQ ID NO: 34);
- (r) ac-KKGACEARHREWAWLCAA-am (SEQ ID NO: 38);
- (t) ac-KKKKGACEARHREWAWLCAA-am (SEQ ID NO: 43);
- (u) ac-GACGLGQEEWFWLCAA-am (SEQ ID NO: 44);
- (v) ac-KKGACGLGQEEWFWLCAA-am (SEQ ID NO: 64);
- (w) ac-KKKKGACGLGQEEWFWLCAA-am (SEQ ID NO: 45);
- (x) ac-GACDLKAKEWFWLCAA-am (SEQ ID NO: 35);
- (y) ac-KKGACDLKAKEWFWLCAA-am (SEQ ID NO: 39);
- (z) ac-KKKKGACDLKAKEWFWLCAA-am (SEQ ID NO: 46);
- (a') ac-GACELLGWEWAWLCC-am (SEQ ID NO: 47);
- (b') ac-KKGACELLGWEWAWLCAA-am (SEQ ID NO: 65);
- (c') ac-KKKKGACELLGWEWAWLCAA-am (SEQ ID NO: 66);
- (d') ac-GACSRSQPEWEWLCAA-am (SEQ ID NO: 36);
- (e') ac-KKGACSRSQPEWEWLCAA-am (SEQ ID NO: 40);
- (f') ac-KKKKGACSRSQPEWEWLCAA-am (SEQ ID NO: 48);
- (g') ac-GACLLRAPEWGWLCAA-am (SEQ ID NO: 37);
- (h') ac-KKGACLLRAPEWGWLCAA-am (SEQ ID NO: 41);
- (i') ac-KKKKGACLLRAPEWGWLCAA-am (SEQ ID NO: 49);
- (j') ac-GACMRGEWEWSWLCAA-am (SEQ ID NO: 50);
- (k') ac-KKGACMRGEWEWSWLCAA-am (SEQ ID NO: 67);
- (1') ac-KKKKGACMRGEWEWSWLCAA-am (SEQ ID NO: 51);
- (m') ac-GACPPLNKEWAWLCAA-am (SEQ ID NO: 52);
- (n') ac-KKGACPPLNKEWAWLCAA-am (SEQ ID NO: 68);



- (o') ac-KKKKGACPPLNKEWAWLCAA-am (SEQ ID NO: 53);
- (p') ac-GACXXXXXEWXWLCAA-am (SEQ ID NO: 54);
- (q') ac-KKGACXXXXXEWXWLCAA-am (SEQ ID NO: 55);
- (r') ac-KKKKGACXXXXXEWXWLCAA-am (SEQ ID NO: 56);
- (s') ac-XXCXXXXXEWXWLCXX-am (SEQ ID NO: 57);
- (t') ac-KKXXCXXXXXEWXWLCXX-am (SEQ ID NO: 58);
- (u') ac-KKKKXXCXXXXXEWXWLCXX-am (SEQ ID NO: 59);
- (v') ac-XXCXXXXXEWXWLCXXX-am (SEQ ID NO: 60);
- (w') ac-KKXXCXXXXXEWXWLCXXX-am (SEQ ID NO: 61);
- (x') ac-KKKKXXCXXXXXEWXWLCXXX-am (SEQ ID NO: 62); and
- (y') a variant of a sequence of (a) through (x'), wherein the variant binds the N-helix coiled-coil cavity of HIV gp41, wherein ac- at the C-terminus and -am at the N-terminus are optional.
- 48. (Amended) The method of Claim 47 wherein the peptide which binds the N-helix coiled-coil cavity of HIV gp41 is selected from the group consisting of:
  - (a) CDLKAKEWFWLC (SEQ ID NO: 3);
  - (b) CEARHREWAWLC (SEQ ID NO: 4);
  - (c) CELLGWEWAWLC (SEQ ID NO: 5);
  - (d) CLLRAPEWGWLC (SEQ ID NO: 6);
  - (e) CSRSQPEWEWLC (SEQ ID NO: 7);
  - (f) CGLGQEEWFWLC (SEQ ID NO: 8);
  - (g) CMRGEWEWSWLC (SEQ ID NO: 9);
  - (h) CPPLNKEWAWLC (SEQ ID NO: 10);
  - (i) CVLKAKEWFWLC (SEQ ID NO: 11);
  - (j) KKGACGLGQEEWFWLC (SEQ ID NO: 15);
  - (k) KKGACELLGWEWAWLC (SEQ ID NO: 16);

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- (1) KKKKGACELLGWEWAWLC (SEQ ID NO: 17);
- (m) KKGACMRGEWEWSWLC (SEQ ID NO: 18);
- (n) KKGACPPLNKEWAWLC (SEQ ID NO: 19);
- (o) a D-peptide comprising WXWL (SEQ ID NO: 23);
- (p) a D-peptide comprising EWXWL (SEQ ID NO: 24);
- (q) a D-peptide comprising CXXXXXEWXWL (SEQ ID NO: 12)
- (r) ac-GACEARHREWAWLCAA-am (SEQ ID NO: 34);
- (r) ac-KKGACEARHREWAWLCAA-am (SEQ ID NO: 38);
- (t) ac-KKKKGACEARHREWAWLCAA-am (SEQ ID NO: 43);
- (u) ac-GACGLGQEEWFWLCAA-am (SEQ ID NO: 44);
- (v) ac-KKGACGLGQEEWFWLCAA-am (SEQ ID NO: 64);
- (w) ac-KKKKGACGLGQEEWFWLCAA-am (SEQ ID NO: 45);
- (x) ac-GACDLKAKEWFWLCAA-am (SEQ ID NO: 35);
- (y) ac-KKGACDLKAKEWFWLCAA-am (SEQ ID NO: 39);
- (z) ac-KKKKGACDLKAKEWFWLCAA-am (SEQ ID NO: 46);
- (a') ac-GACELLGWEWAWLCC-am (SEQ ID NO: 47);
- (b') ac-KKGACELLGWEWAWLCAA-am (SEQ ID NO: 65);
- (c') ac-KKKKGACELLGWEWAWLCAA-am (SEQ ID NO: 66);
- (d') ac-GACSRSQPEWEWLCAA-am (SEQ ID NO: 36);
- (e') ac-KKGACSRSQPEWEWLCAA-am (SEQ ID NO: 40);
- (f') ac-KKKKGACSRSQPEWEWLCAA-am (SEQ ID NO: 48);
- (g') ac-GACLLRAPEWGWLCAA-am (SEQ ID NO: 37);
- (h') ac-KKGACLLRAPEWGWLCAA-am (SEQ ID NO: 41);
- (i') ac-KKKKGACLLRAPEWGWLCAA-am (SEQ ID NO: 49);
- (j') ac-GACMRGEWEWSWLCAA-am (SEQ ID NO: 50);
- (k') ac-KKGACMRGEWEWSWLCAA-am (SEQ ID NO: 67);
- (1') ac-KKKKGACMRGEWEWSWLCAA-am (SEQ ID NO: 51);



- ac-GACPPLNKEWAWLCAA-am (SEQ ID NO: 52); (m')
- ac-KKGACPPLNKEWAWLCAA-am (SEQ ID NO: 68); (n')
- (o') ac-KKKKGACPPLNKEWAWLCAA-am (SEQ ID NO: 53);
- ac-GACXXXXXEWXWLCAA-am (SEQ ID NO: 54); (p')
- ac-KKGACXXXXXEWXWLCAA-am (SEQ ID NO: 55); (q')
- ac-KKKKGACXXXXXEWXWLCAA-am (SEQ ID NO: 56); (r')
- ac-XXCXXXXEWXWLCXX-am (SEQ ID NO: 57); (s')
- ac-KKXXCXXXXEWXWLCXX-am (SEQ ID NO: 58); (t')

ac-KKKKXXCXXXXXEWXWLCXX-am (SEQ ID NO: 59); (u') ac-XXCXXXXEWXWLCXXX-am (SEQ ID NO: 60);

- ac-KKXXCXXXXEWXWLCXXX-am (SEQ ID NO: 61); (w')
- ac-KKKKXXCXXXXXEWXWLCXXX-am (SEQ ID NO: 62); and (x')
- a variant of a sequence of (a) through (x'), wherein the variant binds the N-helix (y') coiled-coil cavity of HIV gp41, wherein ac- at the C-terminus and -am at the Nterminus are optional.

Please insert the attached "Sequence Listing" (sheets 1/20 through 20/20), and comprising SEQ ID NOS: 1-68, into the above-referenced application.

> Respectfully submitted, HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

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Lexington, Massachusetts 02421-4799 Date: Cugust 7, 200/